Journal of Applied Mechanics

Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. Letters in parentheses follow some of the page numbers: ED indicates Editorial, TB indicates Technical Brief, D indicates Discussion, C indicates Closure, and E indicates Errata.

Ababou, Rachid — (see Kfoury, Moussa) **73**, 41–46
Abanto-Bueno, Jorge — (see Kandula, Soma Sekhar V.) **73**, 783–791
Adams, G. G., Barber, J. R., Ciavarella, M., and Rice, J. R. — Closure to "Discussion of 'A Paradox in Sliding Contact Problems With Friction' " (2006, ASME J. Appl. Mech., **73**, pp. 884–886). **73**, 887(C)
Adewale, Ajayi O. — Isotropic Clamped-Free Thin Annular Circular Plate Subjected to a Concentrated Load. **73**, 658–663
Al-Hadhrami, A. K. — (see Ingham, D. B.) **73**, 34–40
Allouache, Nadia, and Chikh, Salah — Second Law Analysis in a Partly Porous Double Pipe Heat Exchanger. **73**, 60–65
Altus, Eli — (see Givli, Sefi) **73**, 698–701(TB)
Ambrosini, Ricardo Daniel, and Luccioni, Bibiana María — Craters Produced by Explosions on the Soil Surface. **73**, 890–900
Anca, Andres — (see Risso, José) **73**, 1045–1053
Apte, S. — (see Mahesh, K.) **73**, 374–381
Arslan, M., and Boyce, M. C. — Constitutive Modeling of the Finite Deformation Behavior of Membranes Possessing a Triangulated Network Microstructure. **73**, 536–543

Bahloul, A., Yahiaoui, M. A., Vasseur, P., Bennacer, R., and Beji, H. — Natural Convection of a Two-Component Fluid in Porous Media Bounded by Tall Concentric Vertical Cylinders. **73**, 26–33
Balachandar, S. — (see Cantero, Mariano I.) **73**, 923–930
Balderrama, R., Cisilino, A. P., and Martinez, M. — Boundary Element Method Analysis of Three-Dimensional Thermoelastic Fracture Problems Using the Energy Domain Integral. **73**, 959–969
Bandyopadhyay, Promode R. — Stokes Mechanism of Drag Reduction. **73**, 483–489
Banerjee, Sourav, Kundu, Tribikram, and Placko, Dominique — Ultrasonic Field Modeling in Multilayered Fluid Structures Using the Distributed Point Source Method Technique. **73**, 598–609
Barber, J. R. — (see Adams, G. G.) **73**, 887(C)
Bataille, Françoise — (see Brillant, Guillaume) **73**, 360–367
Battaglia, Laura, D'Elía, Jorge, Storti, Mario, and Nigro, Norberto — Numerical Simulation of Transient Free Surface Flows Using a Moving Mesh Technique. **73**, 1017–1025
Bažant, Zdeněk P. — Vision of the Future of Solid Mechanics. **73**, 181–182(ED)
Beck, James L. — (see Yuen, Ka-Veng) **73**, 555–564
Beji, H. — (see Bahloul, A.) **73**, 26–33
Belmont, M. R. — Correlation Moment Analysis and the Time Dependence of Coherence in Systems Described by Nonlinear Partial Differential Equations. **73**, 197–205
Bennacer, R. — (see Bahloul, A.) **73**, 26–33
Bennacer, Rachid — (see Kessal, Mohand) **73**, 112–119
Berger, Stanley A. — (see Younis, Bassam A.) **73**, 391–396
Bergstrom, D. J. — (see Rashaida, A. A.) **73**, 108–111
Betti, Raimondo — (see Franco, Guillermo) **73**, 153–162
Bhattacharya, Kaushik — (see Zhang, Rongjing) **73**, 730–736
Bissonnette, Benoit — (see Mir, Hicham) **73**, 349(C)
Bordbar, Mohammad Hadi — (see Zamankhan, Piroz) **73**, 648–657
Boyce, M. C. — (see Arslan, M.) **73**, 536–543
Bravo-Castillero, J. — (see Lebon, F.) **73**, 174–178(TB)
Brillant, Guillaume, Husson, Sabine, and Bataille, Françoise — Subgrid-Scale Diffusivity: Wall Behavior and Dynamic Methods. **73**, 360–367
Brinson, L. Catherine — (see Liu, Hua) **73**, 758–768
Brown, Michal A., Park, Tae-Soon, Rosakis, Ares, Ustundag, Ersan, Huang, Young, Tamura, Nobumichi, and Valek, Bryan — A Comparison of X-Ray Microdiffraction and Coherent Gradient Sensing in Measuring Discontinuous Curvatures in Thin Film: Substrate Systems. **73**, 723–729
Buscaglia, Gustavo, and Younis, Bassam A. — Guest Editorial. **73**, 889(ED)
Buscaglia, Gustavo C. — (see Mut, Fernando) **73**, 1011–1016

Cambon, Claude — (see Salhi, Aziz) **73**, 449–460
Campo, Antonio, Manca, Oronzio, and Morrone, Biagio — Numerical Investigation of the Natural Convection Flows for Low-Prandtl Fluids in Vertical Parallel-Plates Channels. **73**, 96–107
Cantero, Mariano I., Balachandar, S., García, Marcelo H., and Ferry, James P. — Direct Numerical Simulations of Planar and Cylindrical Density Currents. **73**, 923–930
Cardona, Alberto — (see Risso, José) **73**, 1045–1053
Carter, C. B. — (see Gerberich, William W.) **73**, 327–334
Casandjian, Charles — (see Challamel, Noël) **73**, 347–348(D)
Castelo, Antonio — (see Oishi, Cassio M.) **73**, 940–947
Celentano, Diego J. — (see Dardati, Patricia M.) **73**, 977–983
Chai, Herzl — On the Crush Worthiness of a Laterally Confined Bar Under Axial Compression. **73**, 834–841
Challamel, Noël, Lanos, Christophe, and Casandjian, Charles — Discussion: "Damage Modeling in Random Short Glass Fiber Reinforced Composites Including Permanent Strain and Unilateral Effect" (Mir, H., Fafard, M., Bissonnette, B., and Dano, M. L., 2005, ASME J. Appl. Mech., **72**, pp. 249–258). **73**, 347–348(D)
Chambers, M. D. — (see Gerberich, William W.) **73**, 327–334
Chan, Youn-Sha, Paulino, Glaucio H., and Fannjiang, Albert C. — Change of Constitutive Relations due to Interaction Between Strain-Gradient Effect and Material Gradation. **73**, 871–875
Chandraseker, Karthick, and Mukherjee, Subrata — Coupling of Extension and Twist in Single-Walled Carbon Nanotubes. **73**, 315–326
Chasiotis, I., Cho, S. W., and Jonnalagadda, K. — Fracture Toughness and Subcritical Crack Growth in Polycrystalline Silicon. **73**, 714–722
Chen, Jeng-Tzong, Hsiao, Chia-Chun, and Leu, Shyue-Yuh — Null-Field Integral Equation Approach for Plate Problems With Circular Boundaries. **73**, 679–693
Chikh, Salah — (see Allouache, Nadia) **73**, 60–65
Cho, S. W. — (see Chasiotis, I.) **73**, 714–722
Christensen, Richard M. — A Comparative Evaluation of Three Isotropic, Two Property Failure Theories. **73**, 852–859(TB)
Chu, Peter C., and Fan, Chenwu — Prediction of Falling Cylinder Through Air-Water-Sediment Columns. **73**, 300–314
Chung, Jung Ching, and Lin, Jen Fin — Variation in Fractal Properties and Non-Gaussian Distributions of Microcontact Between Elastic-Plastic Rough Surfaces With Mean Surface Separation. **73**, 143–152

Journal of Applied Mechanics

Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. Letters in parentheses follow some of the page numbers: ED indicates Editorial, TB indicates Technical Brief, D indicates Discussion, C indicates Closure, and E indicates Errata.

Ababou, Rachid — (see Kfoury, Moussa) **73**, 41–46
Abanto-Bueno, Jorge — (see Kandula, Soma Sekhar V.) **73**, 783–791
Adams, G. G., Barber, J. R., Ciavarella, M., and Rice, J. R. — Closure to "Discussion of 'A Paradox in Sliding Contact Problems With Friction' " (2006, ASME J. Appl. Mech., **73**, pp. 884–886). **73**, 887(C)
Adewale, Ajayi O. — Isotropic Clamped-Free Thin Annular Circular Plate Subjected to a Concentrated Load. **73**, 658–663
Al-Hadhrami, A. K. — (see Ingham, D. B.) **73**, 34–40
Allouache, Nadia, and Chikh, Salah — Second Law Analysis in a Partly Porous Double Pipe Heat Exchanger. **73**, 60–65
Altus, Eli — (see Givli, Sefi) **73**, 698–701(TB)
Ambrosini, Ricardo Daniel, and Luccioni, Bibiana María — Craters Produced by Explosions on the Soil Surface. **73**, 890–900
Anca, Andres — (see Risso, José) **73**, 1045–1053
Apte, S. — (see Mahesh, K.) **73**, 374–381
Arslan, M., and Boyce, M. C. — Constitutive Modeling of the Finite Deformation Behavior of Membranes Possessing a Triangulated Network Microstructure. **73**, 536–543

Bahloul, A., Yahiaoui, M. A., Vasseur, P., Bennacer, R., and Beji, H. — Natural Convection of a Two-Component Fluid in Porous Media Bounded by Tall Concentric Vertical Cylinders. **73**, 26–33
Balachandar, S. — (see Cantero, Mariano I.) **73**, 923–930
Balderrama, R., Cisilino, A. P., and Martinez, M. — Boundary Element Method Analysis of Three-Dimensional Thermoelastic Fracture Problems Using the Energy Domain Integral. **73**, 959–969
Bandyopadhyay, Promode R. — Stokes Mechanism of Drag Reduction. **73**, 483–489
Banerjee, Sourav, Kundu, Tribikram, and Placko, Dominique — Ultrasonic Field Modeling in Multilayered Fluid Structures Using the Distributed Point Source Method Technique. **73**, 598–609
Barber, J. R. — (see Adams, G. G.) **73**, 887(C)
Bataille, Françoise — (see Brillant, Guillaume) **73**, 360–367
Battaglia, Laura, D'Elía, Jorge, Storti, Mario, and Nigro, Norberto — Numerical Simulation of Transient Free Surface Flows Using a Moving Mesh Technique. **73**, 1017–1025
Bažant, Zdeněk P. — Vision of the Future of Solid Mechanics. **73**, 181–182(ED)
Beck, James L. — (see Yuen, Ka-Veng) **73**, 555–564
Beji, H. — (see Bahloul, A.) **73**, 26–33
Belmont, M. R. — Correlation Moment Analysis and the Time Dependence of Coherence in Systems Described by Nonlinear Partial Differential Equations. **73**, 197–205
Bennacer, R. — (see Bahloul, A.) **73**, 26–33
Bennacer, Rachid — (see Kessal, Mohand) **73**, 112–119
Berger, Stanley A. — (see Younis, Bassam A.) **73**, 391–396
Bergstrom, D. J. — (see Rashaida, A. A.) **73**, 108–111
Betti, Raimondo — (see Franco, Guillermo) **73**, 153–162
Bhattacharya, Kaushik — (see Zhang, Rongjing) **73**, 730–736
Bissonnette, Benoit — (see Mir, Hicham) **73**, 349(C)
Bordbar, Mohammad Hadi — (see Zamankhan, Piroz) **73**, 648–657
Boyce, M. C. — (see Arslan, M.) **73**, 536–543
Bravo-Castillero, J. — (see Lebon, F.) **73**, 174–178(TB)
Brillant, Guillaume, Husson, Sabine, and Bataille, Françoise — Subgrid-Scale Diffusivity: Wall Behavior and Dynamic Methods. **73**, 360–367
Brinson, L. Catherine — (see Liu, Hua) **73**, 758–768
Brown, Michal A., Park, Tae-Soon, Rosakis, Ares, Ustundag, Ersan, Huang, Young, Tamura, Nobumichi, and Valek, Bryan — A Comparison of X-Ray Microdiffraction and Coherent Gradient Sensing in Measuring Discontinuous Curvatures in Thin Film: Substrate Systems. **73**, 723–729
Buscaglia, Gustavo, and Younis, Bassam A. — Guest Editorial. **73**, 889(ED)
Buscaglia, Gustavo C. — (see Mut, Fernando) **73**, 1011–1016

Cambon, Claude — (see Salhi, Aziz) **73**, 449–460
Campo, Antonio, Manca, Oronzio, and Morrone, Biagio — Numerical Investigation of the Natural Convection Flows for Low-Prandtl Fluids in Vertical Parallel-Plates Channels. **73**, 96–107
Cantero, Mariano I., Balachandar, S., García, Marcelo H., and Ferry, James P. — Direct Numerical Simulations of Planar and Cylindrical Density Currents. **73**, 923–930
Cardona, Alberto — (see Risso, José) **73**, 1045–1053
Carter, C. B. — (see Gerberich, William W.) **73**, 327–334
Casandjian, Charles — (see Challamel, Noël) **73**, 347–348(D)
Castelo, Antonio — (see Oishi, Cassio M.) **73**, 940–947
Celentano, Diego J. — (see Dardati, Patricia M.) **73**, 977–983
Chai, Herzl — On the Crush Worthiness of a Laterally Confined Bar Under Axial Compression. **73**, 834–841
Challamel, Noël, Lanos, Christophe, and Casandjian, Charles — Discussion: "Damage Modeling in Random Short Glass Fiber Reinforced Composites Including Permanent Strain and Unilateral Effect" (Mir, H., Fafard, M., Bissonnette, B., and Dano, M. L., 2005, ASME J. Appl. Mech., **72**, pp. 249–258). **73**, 347–348(D)
Chambers, M. D. — (see Gerberich, William W.) **73**, 327–334
Chan, Youn-Sha, Paulino, Glaucio H., and Fannjiang, Albert C. — Change of Constitutive Relations due to Interaction Between Strain-Gradient Effect and Material Gradation. **73**, 871–875
Chandraseker, Karthick, and Mukherjee, Subrata — Coupling of Extension and Twist in Single-Walled Carbon Nanotubes. **73**, 315–326
Chasiotis, I., Cho, S. W., and Jonnalagadda, K. — Fracture Toughness and Subcritical Crack Growth in Polycrystalline Silicon. **73**, 714–722
Chen, Jeng-Tzong, Hsiao, Chia-Chun, and Leu, Shyue-Yuh — Null-Field Integral Equation Approach for Plate Problems With Circular Boundaries. **73**, 679–693
Chikh, Salah — (see Allouache, Nadia) **73**, 60–65
Cho, S. W. — (see Chasiotis, I.) **73**, 714–722
Christensen, Richard M. — A Comparative Evaluation of Three Isotropic, Two Property Failure Theories. **73**, 852–859(TB)
Chu, Peter C., and Fan, Chenwu — Prediction of Falling Cylinder Through Air-Water-Sediment Columns. **73**, 300–314
Chung, Jung Ching, and Lin, Jen Fin — Variation in Fractal Properties and Non-Gaussian Distributions of Microcontact Between Elastic-Plastic Rough Surfaces With Mean Surface Separation. **73**, 143–152

Churchman, C. M. — (see Hills, D. A.) **73**, 884–886(D)
Ciavarella, M. — (see Adams, G. G.) **73**, 887(C)
Cisilino, A. P. — (see Balderrama, R.) **73**, 959–969
Clark, Timothy T., and Zhou, Ye — Growth Rate Exponents of Richtmyer-Meshkov Mixing Layers. **73**, 461–468
Cole, D. — (see Pogozelski, [illegible]) **73**, 335–337(TB)
Colpachi, Violeta — (see Risso, José) **73**, 1045–1053
Constantinescu, G. — (see Mahesh, K.) **73**, 374–381
Cordill, M. J. — (see Gerberich, William W.) **73**, 327–334
Cuminato, José A. — (see Oishi, Cassio M.) **73**, 940–947
Cupiał, Piotr — Rayleigh's Quotient of Linear Piezoelectricity and Its Use in the Approximate Calculation of the Natural Frequencies of Piezoelectric Continua. **73**, 189–196
Curtin, W. A. — (see Gerberich, William W.) **73**, 327–334

Daguenet, Michel — (see Djezzar, Mahfoud) **73**, 88–95
Dai, X. — (see Gioia, G.) **73**, 254–258
Damseh, Rebhi A. — Magnetohydrodynamics-Mixed Convection From Radiate Vertical Isothermal Surface Embedded in a Saturated Porous Media. **73**, 54–59
Dano, Marie-Laure — (see Mir, Hicham) **73**, 349(C)
Dardati, Patricia M., Godoy, Luis A., and Celentano, Diego J. — Microstructural Simulation of Solidification Process of Spheroidal-Graphite Cast Iron. **73**, 977–983
Dari, Enzo A. — (see Mut, Fernando) **73**, 1011–1016
Das, Tuhin, and Mukherjee, Ranjan — Reconfiguration of a Rolling Sphere: A Problem in Evolute-Involute Geometry. **73**, 590–597
Dauby, Pierre — (see Lebon, Georgy) **73**, 16–20
Deek, Fadi P. — (see Kimmel-Klotzkin, Shari J.) **73**, 79–87
D'Elía, Jorge — (see Battaglia, Laura) **73**, 1017–1025
Delmastro, D. — (see Zanocco, P.) **73**, 911–922
Derendyaev, N. V., Vostrukhov, A. V., and Soldatov, I. N. — Stability and Andronov-Hopf Bifurcation of Steady-State Motion of Rotor System Partly Filled With Liquid: Continuous and Discrete Models. **73**, 580–589
Desaive, Thomas — (see Lebon, Georgy) **73**, 16–20
Desvaux, S., Duquennoy, M., Ouaftouh, M., Gualandri, J., and Ourak, M. — Estimation of Internal Stress Profiles Using the Barkhausen Noise Effect—Application: Verification to the Homogeneity of the Shot Peening Process Performed on the Raceways of Aerospace Bearing Rings. **73**, 342–346(TB)
Dingle, M. — (see Weiss, M.) **73**, 574–579
Djezzar, Mahfoud, and Daguenet, Michel — Natural Steady Convection in a Space Annulus Between Two Elliptic Confocal Ducts: Influence of the Slope Angle. **73**, 88–95
Dong, S. B. — (see Mahmoud, A.) **73**, 338–341(TB)
dos Santos e Lucato, S. L., and Evans, A. G. — The Load Capacity of a Kagome Based High Authority Shape Morphing Structure. **73**, 128–133
Duncan, J. L. — (see Weiss, M.) **73**, 574–579
Duquennoy, M. — (see Desvaux, S.) **73**, 342–346(TB)

Elliott, L. — (see Ingham, D. B.) **73**, 34–40
Emri, I., and von Bernstorff, B. S. — The Effect of Molecular Mass Distribution on Time-Dependent Behavior of Polyamides. **73**, 752–757
Etse, G., and Vrech, S. M. — Geometry Method for Localization Analysis in Gradient-Dependent J_2 Plasticity. **73**, 1026–1030
Etse, Guillermo — (see Schiava, Ricardo) **73**, 1039–1044
Evans, A. G. — (see dos Santos e Lucato, S. L.) **73**, 128–133

Fafard, Mario — (see Mir, Hicham) **73**, 349(C)
Falcioni, Daniel J. — (see Henda, Redhouane) **73**, 47–53
Fan, Chenwu — (see Chu, Peter C.) **73**, 300–314
Fannjiang, Albert C. — (see Chan, Youn-Sha) **73**, 871–875
Fasel, Hermann F., von Terzi, Dominic A., and Sandberg, Richard D. — A Methodology for Simulating Compressible Turbulent Flows. **73**, 405–412
Ferreira, Valdemir G. — (see Oishi, Cassio M.) **73**, 940–947
Ferry, James P. — (see Cantero, Mariano I.) **73**, 923–930
Flores, Fernando G. — A Two-Dimensional Linear Assumed Strain Triangular Element for Finite Deformation Analysis. **73**, 970–976
Franco, Guillermo, Betti, Raimondo, and Longman, Richard W. — On the Uniqueness of Solutions for the Identification of Linear Structural Systems. **73**, 153–162

García, Marcelo H. — (see Cantero, Mariano I.) **73**, 923–930
Gerberich, William W., Mook, W. M., Chambers, M. D., Cordill, M. J., Perrey, C. R., Carter, C. B., Miller, R. E., Curtin, W. A., Mukherjee, R., and Girshick, S. L. — An Energy Balance Criterion for Nanoindentation-Induced Single and Multiple Dislocation Events. **73**, 327–334
Geubelle, Philippe H. — (see Kandula, Soma Sekhar V.) **73**, 783–791
Giménez, M. — (see Zanocco, P.) **73**, 911–922
Gioia, G., and Dai, X. — Surface Stress and Reversing Size Effect in the Initial Yielding of Ultrathin Films. **73**, 254–258
Girimaji, Sharath S. — Partially-Averaged Navier-Stokes Model for Turbulence: A Reynolds-Averaged Navier-Stokes to Direct Numerical Simulation Bridging Method. **73**, 413–421
——, **Jeong, Eunhwan, and Srinivasan, Ravi** — Partially Averaged Navier-Stokes Method for Turbulence: Fixed Point Analysis and Comparisons With Unsteady Partially Averaged Navier-Stokes. **73**, 422–429
Girshick, S. L. — (see Gerberich, William W.) **73**, 327–334
Givli, Sefi, and Altus, Eli — Relation Between Stochastic Failure Location and Strength in Brittle Materials. **73**, 698–701(TB)
Godoy, Luis A. — (see Dardati, Patricia M.) **73**, 977–983
Gong, Lixin, and Kyriakides, Stelios — On the Crushing Stress of Open Cell Foams. **73**, 807–814
Gualandri, J. — (see Desvaux, S.) **73**, 342–346(TB)
Guinovart-Diaz, R. — (see Lebon, F.) **73**, 174–178(TB)
Guo, Z. Y. — (see Peng, X. Q.) **73**, 815–824
Gupta, Sachin — (see Huang, Gang) **73**, 737–744
Gustafson, Peter A., Harris, Stephen J., O'Neill, Ann E., and Waas, Anthony M. — Measurement of Biaxial Stress States in Silicon Using Micro-Raman Spectroscopy. **73**, 745–751

Ham, F. — (see Mahesh, K.) **73**, 374–381
Hanjalić, K., and Kenjereš, S. — RANS-Based Very Large Eddy Simulation of Thermal and Magnetic Convection at Extreme Conditions. **73**, 430–440
Harris, Stephen J. — (see Gustafson, Peter A.) **73**, 745–751
Hassan, Samer, Lyubimova, Tatyana P., Lyubimov, Dmitry V., and Kawaji, Masahiro — Motion of a Sphere Suspended in a Vibrating Liquid-Filled Container. **73**, 72–78
——, **Kawaji, Masahiro, Lyubimova, Tatyana P., and Lyubimov, Dmitry V.** — The Effects of Vibrations on Particle Motion Near a Wall in a Semi-Infinite Fluid Cell. **73**, 610–621
Henda, Redhouane, and Falcioni, Daniel J. — Modeling of Heat Transfer in a Moving Packed Bed: Case of the Preheater in Nickel Carbonyl Process. **73**, 47–53
Hernández, E. — Approximation of the Vibration Modes of a Plate and Shells Coupled With a Fluid. **73**, 1005–1010
Hills, D. A., Sackfield, A., and Churchman, C. M. — Discussion: "A Paradox in Sliding Contact Problems With Friction" (Adams, G. G., Barber, J. R., Ciavarella, M., and Rice, J. R., 2005, ASME J. Appl. Mech., **72**, pp. 450–452). **73**, 884–886(D)
Ho, C. Y. — (see Wei, P. S.) **73**, 516–523
Hoffmann, Norbert — Transient Growth and Stick-Slip in Sliding Friction. **73**, 642–647
Hsiao, Chia-Chun — (see Chen, Jeng-Tzong) **73**, 679–693
Hsieh, M. C., and Hwu, Chyanbin — Hygrothermal Stresses in

Unsymmetric Laminates Disturbed by Elliptical Holes. **73**, 228–239
Huang, Gang, Wang, Bo, Lu, Hongbing, Mamedov, Arif, and Gupta, Sachin — Material Characterization and Modeling of Single-Wall Carbon Nanotube/Polyelectrolyte Multilayer Nanocomposites. **73**, 737–744
Huang, Young — (see Brown, Michal A.) **73**, 723–729
Huespe, A. E. — (see Sánchez, P. J.) **73**, 995–1004
Husson, Sabine — (see Brillant, Guillaume) **73**, 360–367
Hwu, Chyanbin — (see Hsieh, M. C.) **73**, 228–239

Iaccarino, G. — (see Mahesh, K.) **73**, 374–381
Ingham, D. B., Al-Hadhrami, A. K., Elliott, L., and Wen, X. — Fluid Flows Through Some Geological Discontinuities. **73**, 34–40
Isaacs, Jon B. — (see Nemat-Nasser, Sia) **73**, 825–833

Jacovkis, Pablo M. — (see Quinteros, Javier) **73**, 984–994
Jeong, Eunhwan — (see Girimaji, Sharath S.) **73**, 422–429
Jiang, Charles-Guobing, Saghir, M. Ziad, and Kawaji, M. — Numerical Analysis of Thermal-Solutal Convection in Heterogeneous Porous Media **73**, 21–25
Jonnalagadda, K. — (see Chasiotis, I.) **73**, 714–722

Kajishima, Takeo, and Nomachi, Takayuki — One-Equation Subgrid Scale Model Using Dynamic Procedure for the Energy Production. **73**, 368–373
Kandula, Soma Sekhar V., Abanto-Bueno, Jorge, Lambros, John, and Geubelle, Philippe H. — Cohesive Modeling of Quasi-Static Fracture in Functionally Graded Materials. **73**, 783–791
Kardomateas, G. A. — (see Li, R.) **73**, 220–227
Katafygiotis, Lambros S. — (see Yuen, Ka-Veng) **73**, 555–564
Kawaji, M. — (see Jiang, Charles-Guobing) **73**, 21–25
Kawaji, Masahiro — (see Hassan, Samer) **73**, 72–78
_____ (see Hassan, Samer) **73**, 610–621
Kenjereš, S. — (see Hanjalić, K.) **73**, 430–440
Kessal, Mohand, and Bennacer, Rachid — Modeling of Dissolved Gas Effect on Liquid Transients. **73**, 112–119
Kfoury, Moussa, Ababou, Rachid, Noetinger, Benoît, and Quintard, Michel — Upscaling Fractured Heterogeneous Media: Permeability and Mass Exchange Coefficient. **73**, 41–46
Kikuchi, Noboru — (see Ma, Zheng-Dong) **73**, 565–573
Kimmel-Klotzkin, Shari J., and Deek, Fadi P. — Large Eddy Simulation of Rotating Finite Source Convection. **73**, 79–87
Korsunsky, Alexander M. — (see Ma, Lifeng) **73**, 876–883
Kostarev, Konstantin, Viviani, Antonio, and Zuev, Andrew — Thermal and Concentrational Maragoni Convection at Liquid/Air Bubble Interface. **73**, 66–71
Krommer, Michael, and Varadan, Vasundara V. — Control of Bending Vibrations Within Subdomains of Thin Plates—Part II: Piezoelectric Actuation and Approximate Solution. **73**, 259–267
Kukta, R. V. — (see Machtay, N. D.) **73**, 212–219
Kundu, Tribikram — (see Banerjee, Sourav) **73**, 598–609
Kyriakides, Stelios — (see Ravi-Chandar, K.) **73**, 713
_____ (see Gong, Lixin) **73**, 807–814

Lambros, John — (see Kandula, Soma Sekhar V.) **73**, 783–791
Lanos, Christophe — (see Challamel, Noël) **73**, 347–348(D)
Lavrov, A. — Modeling Flow of a Biviscous Fluid From Borehole Into Rock Fracture. **73**, 171–173(TB)
Lebon, F., Rodríguez-Ramos, R., Lopez-Realpozo, J. C., Bravo-Castillero, J., Guinovart-Diaz, R., and Mesejo, A. — Effective Properties of Nonlinear Laminated Composites With Perfect Adhesion. **73**, 174–178(TB)
Lebon, Georgy, Desaive, Thomas, and Dauby, Pierre — A Unified Extended Thermodynamic Description of Diffusion, Thermo-Diffusion, Suspensions, and Porous Media. **73**, 16–20
Lee, Genn-Sheng — (see Ma, Chien-Ching) **73**, 490–504
Leu, Shyue-Yuh — (see Chen, Jeng-Tzong) **73**, 679–693
Levy, Alan J. — (see Xie, Mayue) **73**, 268–280
Li, R., and Kardomateas, G. A. — The Mode III Interface Crack in Piezo-Electro-Magneto-Elastic Dissimilar Bimaterials. **73**, 220–227
Li, Xian-Fang, and Xu, L. Roy — Transient Response of a Finite Bimaterial Plate Containing a Crack Perpendicular to and Terminating at the Interface. **73**, 544–554
Liechti, Kenneth — (see Ravi-Chandar, K.) **73**, 713
Liechti, Kenneth M. — (see Wang, Mingji) **73**, 769–777
_____ (see Mello, Alberto W.) **73**, 860–870
Lin, Bisen, and Ravi-Chandar, K. — An Experimental Investigation of the Motion of Flexible Strings: Whirling. **73**, 842–851
Lin, Jen Fin — (see Chung, Jung Ching) **73**, 143–152
Lischer, David W. — (see Nemat-Nasser, Sia) **73**, 825–833
Liu, C. T., and Ravichandran, G. — Influence of Confining Pressure on the Crack Growth Behavior in a Highly Filled Elastomer. **73**, 778–782
Liu, Hua, and Brinson, L. Catherine — A Hybrid Numerical-Analytical Method for Modeling the Viscoelastic Properties of Polymer Nanocomposites. **73**, 758–768
Liu, Yaozong — (see Wang, Gang) **73**, 167–170(TB)
Longman, Richard W. — (see Franco, Guillermo) **73**, 153–162
Lopez-Realpozo, J. C. — (see Lebon, F.) **73**, 174–178(TB)
Lu, Hongbing — (see Huang, Gang) **73**, 737–744
Lu, Tian Jian — (see Ma, Lifeng) **73**, 876–883
Luccioni, Bibiana M. — Constitutive Model for Fiber-Reinforced Composite Laminates. **73**, 901–910
Luccioni, Bibiana María — (see Ambrosini, Ricardo Daniel) **73**, 890–900
Lyubimov, Dmitry V. — (see Hassan, Samer) **73**, 72–78
_____ (see Hassan, Samer) **73**, 610–621
Lyubimova, Tatyana P. — (see Hassan, Samer) **73**, 72–78
_____ (see Hassan, Samer) **73**, 610–621

Ma, Chien-Ching, and Lee, Genn-Sheng — General Three-Dimensional Analysis of Transient Elastic Waves in a Multilayered Medium. **73**, 490–504
Ma, Lifeng, Lu, Tian Jian, and Korsunsky, Alexander M. — Vector *J*-Integral Analysis of Crack Interaction With Pre-existing Singularities. **73**, 876–883
Ma, Zheng-Dong, Kikuchi, Noboru, Pierre, Christophe, and Raju, Basavaraju — Multidomain Topology Optimization for Structural and Material Designs. **73**, 565–573
Machtay, N. D., and Kukta, R. V. — Energetics of Epitaxial Island Arrangements on Substrate Mesas. **73**, 212–219
Mahesh, K., Constantinescu, G., Apte, S., Iaccarino, G., Ham, F., and Moin, P. — Large-Eddy Simulation of Reacting Turbulent Flows in Complex Geometries. **73**, 374–381
Mahmoud, A., Shah, A. H., and Dong, S. B. — Transient Response of Transversely Isotropic Composite Plates to a Point Source. **73**, 338–341(TB)
Mai, Y.-W. — (see Wang, B. L.) **73**, 134–142
Mai, Yiu-Wing — (see Wang, Bao-Lin) **73**, 281–290
Mamedov, Arif — (see Huang, Gang) **73**, 737–744
Manca, Oronzio — (see Campo, Antonio) **73**, 96–107
Mangiavacchi, Norberto — (see Oishi, Cassio M.) **73**, 940–947
Margolin, L. G., Smolarkiewicz, P. K., and Wyszogradzki, A. A. — Dissipation in Implicit Turbulence Models: A Computational Study. **73**, 469–473
Martinez, M. — (see Balderrama, R.) **73**, 959–969
McKee, Sean — (see Oishi, Cassio M.) **73**, 940–947
Mello, Alberto W., and Liechti, Kenneth M. — The Effect of Self-Assembled Monolayers on Interfacial Fracture. **73**, 860–870

Mesejo, A. — (see Lebon, F.) **73**, 174–178(TB)
Miller, R. E. — (see Gerberich, William W.) **73**, 327–334
Mir, Hicham, Fafard, Mario, Bissonnette, Benoit, and Dano, Marie-Laure — Closure to "Discussion of 'Damage Modeling in Random Short Glass Fiber Reinforced Composites Including Permanent Strain and Unilateral Effect' " (2006, ASME J. Appl. Mech., **73**, pp. 347–348). **73**, 349(C)
Mitsoulis, E., and Sofou, S. — Calendering Pseudoplastic and Viscoplastic Fluids With Slip at the Roll Surface. **73**, 291–299
Mohr, Dirk, and Wierzbicki, Tomasz — On the Crashworthiness of Shear-Rigid Sandwich Structures. **73**, 633–641
Moin, P. — (see Mahesh, K.) **73**, 374–381
Mook, W. M. — (see Gerberich, William W.) **73**, 327–334
Moran, B. — (see Peng, X. Q.) **73**, 815–824
Morrone, Biagio — (see Campo, Antonio) **73**, 96–107
Mukherjee, R. — (see Gerberich, William W.) **73**, 327–334
Mukherjee, Ranjan — (see Das, Tuhin) **73**, 590–597
Mukherjee, Subrata — (see Chandraseker, Karthick) **73**, 315–326
Mut, Fernando, Buscaglia, Gustavo C., and Dari, Enzo A. — New Mass-Conserving Algorithm for Level Set Redistancing on Unstructured Meshes. **73**, 1011–1016

Nemat-Nasser, Sia, Yong Choi, Jeom, Isaacs, Jon B., and Lischer, David W. — Quasi-Static and Dynamic Buckling of Thin Cylindrical Shape-Memory Shells. **73**, 825–833
Nestorović, M. D. — (see Triantafyllidis, N.) **73**, 505–515
Nigro, Norberto — (see Battaglia, Laura) **73**, 1017–1025
Niordson, Christian F., and Tvergaard, Viggo — Size Effects on Cavitation Instabilities. **73**, 246–253
Noetinger, Benoît — (see Kfoury, Moussa) **73**, 41–46
Nomachi, Takayuki — (see Kajishima, Takeo) **73**, 368–373

Oh, Eun-Suok, Walton, Jay R., and Slattery, John C. — A Theory of Fracture Based Upon an Extension of Continuum Mechanics to the Nanoscale. **73**, 792–798
Oishi, Cassio M., Cuminato, José A., Ferreira, Valdemir G., Tomé, Murilo F., Castelo, Antonio, Mangiavacchi, Norberto, and McKee, Sean — A Stable Semi-Implicit Method for Free Surface Flows. **73**, 940–947
Oliver, J. — (see Sánchez, P. J.) **73**, 995–1004
O'Neill, Ann E. — (see Gustafson, Peter A.) **73**, 745–751
Ouaftouh, M. — (see Desvaux, S.) **73**, 342–346(TB)
Ourak, M. — (see Desvaux, S.) **73**, 342–346(TB)

Palmai, Zoltan — Chaotic Phenomena Induced by the Fast Plastic Deformation of Metals During Cutting. **73**, 240–245
Park, Tae-Soon — (see Brown, Michal A.) **73**, 723–729
Paulino, Glaucio H. — (see Chan, Youn-Sha) **73**, 871–875
Peng, X. Q., Guo, Z. Y., and Moran, B. — An Anisotropic Hyperelastic Constitutive Model With Fiber-Matrix Shear Interaction for the Human Annulus Fibrosus. **73**, 815–824
Perrey, C. R. — (see Gerberich, William W.) **73**, 327–334
Pierre, Christophe — (see Ma, Zheng-Dong) **73**, 565–573
Placko, Dominique — (see Banerjee, Sourav) **73**, 598–609
Platten, Jean K. — The Soret Effect: A Review of Recent Experimental Results. **73**, 5–15
Plaut, R. H. — (see Santillan, S. T.) **73**, 664–671
Plesniak, Michael W. — Noncanonical Short Hole Jets-in-Crossflow for Turbine Film Cooling. **73**, 474–482
Pogozelski, E., Cole, D., and Wesley, M. — Examination of the Stress Distribution in the Tip of a Pencil. **73**, 335–337(TB)
Ponta, Fernando L. — Kinematic Laplacian Equation Method: A Velocity-Vorticity Formulation for the Navier-Stokes Equations. **73**, 1031–1038
Pugno, Nicola M. — Ice or Snow in the Tempel 1 Comet?. **73**, 697(TB)

Quintard, Michel — (see Kfoury, Moussa) **73**, 41–46
Quinteros, Javier, Jacovkis, Pablo M., and Ramos, Victor A. — Evolution of the Upper Crustal Deformation in Subduction Zones. **73**, 984–994

Raju, Basavaraju — (see Ma, Zheng-Dong) **73**, 565–573
Ramos, Victor A. — (see Quinteros, Javier) **73**, 984–994
Rashaida, A. A., Bergstrom, D. J., and Sumner, R. J. — Mass Transfer From a Rotating Disk to a Bingham Fluid. **73**, 108–111
Ravi-Chandar, K., Liechti, Kenneth, and Kyriakides, Stelios — Foreword. **73**, 713
——— (see Lin, Bisen) **73**, 842–851
Ravichandran, G. — (see Liu, C. T.) **73**, 778–782
Ravichandran, Guruswami — (see Zhang, Rongjing) **73**, 730–736
Ray, M. C., and Sachade, H. M. — Exact Solutions for the Functionally Graded Plates Integrated With a Layer of Piezoelectric Fiber-Reinforced Composite. **73**, 622–632
Rice, J. R. — (see Adams, G. G.) **73**, 887(C)
Risso, José, Cardona, Alberto, Anca, Andres, and Colpachi, Violeta — Computation of Stress and Strain Evolution During Heat Treatment of Work Rolls. **73**, 1045–1053
Rodríguez-Ramos, R. — (see Lebon, F.) **73**, 174–178(TB)
Rolfe, B. F. — (see Weiss, M.) **73**, 574–579
Rosakis, Ares — (see Brown, Michal A.) **73**, 723–729
Rossky, Peter J. — (see Wang, Mingji) **73**, 769–777
Rotondi, Rossella — Modeling Mixture Formation in a Gasoline Direct Injection Engine. **73**, 931–939

Sachade, H. M. — (see Ray, M. C.) **73**, 622–632
Sackfield, A. — (see Hills, D. A.) **73**, 884–886(D)
Saghir, M. Ziad — (see Jiang, Charles-Guobing) **73**, 21–25
Salhi, Aziz, and Cambon, Claude — Advances in Rapid Distortion Theory: From Rotating Shear Flows to the Baroclinic Instability. **73**, 449–460
Sánchez, P. J., Sonzogni, V., Huespe, A. E., and Oliver, J. — Stabilized Mixed Finite Elements With Embedded Strong Discontinuities for Shear Band Modeling. **73**, 995–1004
Sandberg, Richard D. — (see Fasel, Hermann F.) **73**, 405–412
Santillan, S. T., Virgin, L. N., and Plaut, R. H. — Post-buckling and Vibration of Heavy Beam on Horizontal or Inclined Rigid Foundation. **73**, 664–671
Schiava, Ricardo, and Etse, Guillermo — Constitutive Modeling and Discontinuous Bifurcation Assessment in Unsaturated Soils. **73**, 1039–1044
Schraad, M. W. — (see Triantafyllidis, N.) **73**, 505–515
Shah, A. H. — (see Mahmoud, A.) **73**, 338–341(TB)
Shah, S. Ahmed — (see Tajuddin, M.) **73**, 705–708(TB)
Shilo, Doron — (see Zhang, Rongjing) **73**, 730–736
Siginer, Dennis, and Thangam, Siva — In Memoriam Charles Gregory Speziale 1948–1999 **73**, 353
———, **and Thangam, Siva** — Special Issue of the Journal of Applied Mechanics on Modeling and Simulation of Turbulent Flows Dedicated to the Late Professor Charles G. Speziale. **73**, 354–359
Siginer, Dennis A. — Thermal Science and Engineering With Emphasis on Porous Media. **73**, 1–4
Simmonds, J. G. — Green's Function for a Closed, Infinite, Circular Cylindrical Elastic Shell. **73**, 183–188
Simmonds, James G. — Extending Koiter's Simplified Equations to Shells of Arbitrary Closed Cross Section. **73**, 709–711(TB)
Slattery, John C. — (see Oh, Eun-Suok) **73**, 792–798
Smolarkiewicz, P. K. — (see Margolin, L. G.) **73**, 469–473
So, Ronald M. C. — (see Xie, Wei-Chau) **73**, 120–127
Sofou, S. — (see Mitsoulis, E.) **73**, 291–299
Soldatov, I. N. — (see Derendyaev, N. V.) **73**, 580–589
Sonzogni, V. — (see Sánchez, P. J.) **73**, 995–1004
Srinivasan, Ravi — (see Girimaji, Sharath S.) **73**, 422–429

Srinivasan, Vibha — (see Wang, Mingji) **73**, 769–777
Stigh, U. — Continuum Damage Mechanics and the Life-Fraction Rule. **73**, 702–704(TB)
Stone, Matthew T. — (see Wang, Mingji) **73**, 769–777
Storti, Mario — (see Battaglia, Laura) **73**, 1017–1025
Sudak, L. J. — (see Wang, Xu) **73**, 206–211
Sumner, R. J. — (see Rashaida, A. A.) **73**, 108–111

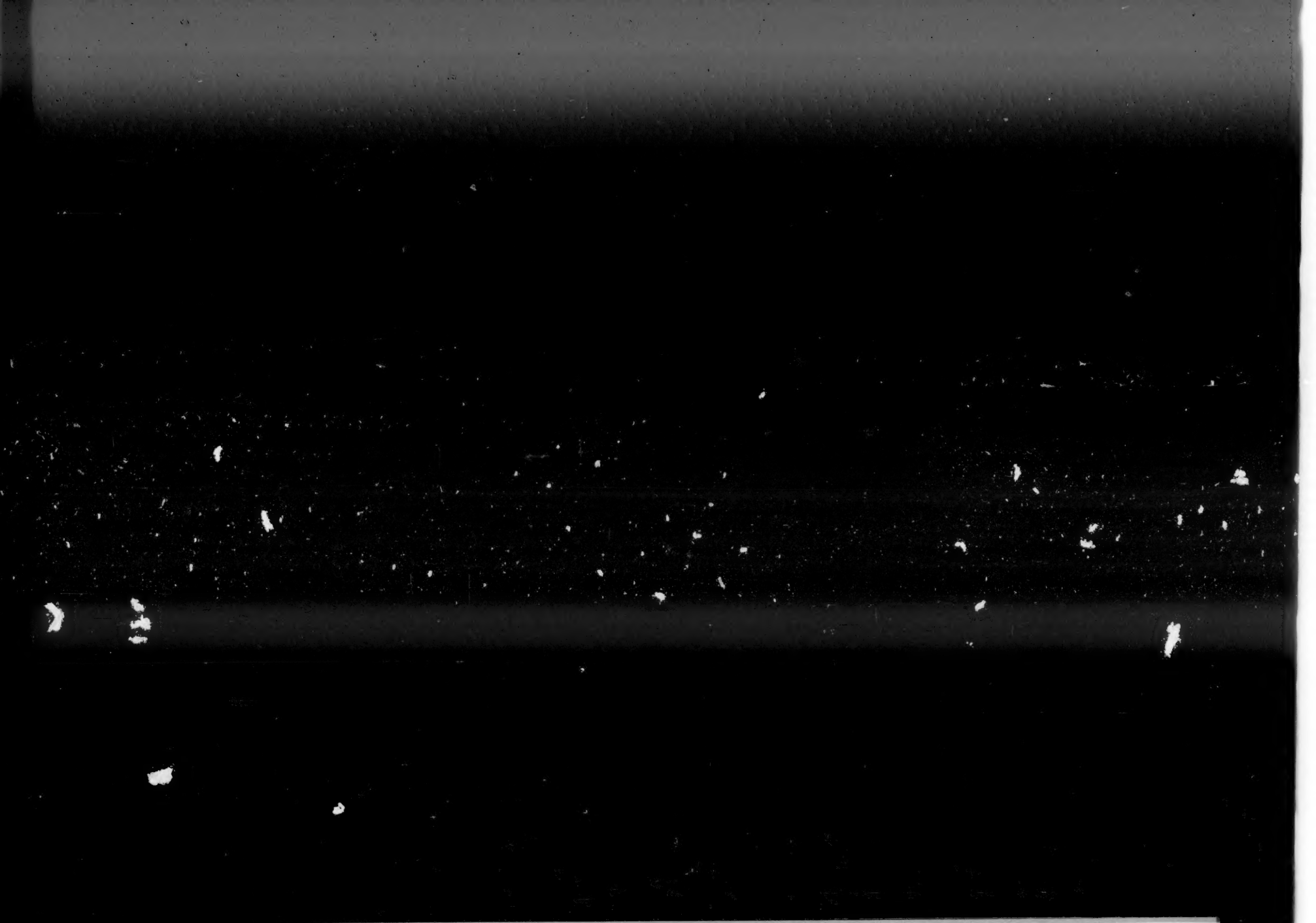
Tajuddin, M., and Shah, S. Ahmed — Circumferential Waves of Infinite Hollow Poroelastic Cylinders. **73**, 705–708(TB)
Tamura, Nobumichi — (see Brown, Michal A.) **73**, 723–729
Thangam, Siva — (see Siginer, Dennis) **73**, 353
_____ (see Siginer, Dennis) **73**, 354–359
_____ (see Wang, Xiaohua) **73**, 397–404
_____ (see Yousuff Hussaini, M.) **73**, 441–448
Tomé, Murilo F. — (see Oishi, Cassio M.) **73**, 940–947
Triantafyllidis, N., Nestorović, M. D., and Schraad, M. W. — Failure Surfaces for Finitely Strained Two-Phase Periodic Solids Under General In-Plane Loading. **73**, 505–515
Tsubokura, Makoto — Subgrid Scale Modeling of Turbulence for the Dynamic Procedure Using Finite Difference Method and Its Assessment on the Thermally Stratified Turbulent Channel Flow. **73**, 382–390
Tvergaard, Viggo — (see Niordson, Christian F.) **73**, 246–253

Ustundag, Ersan — (see Brown, Michal A.) **73**, 723–729

Valek, Bryan — (see Brown, Michal A.) **73**, 723–729
Varadan, Vasundara V. — (see Krommer, Michael) **73**, 259–267
Vasseur, P. — (see Bahloul, A.) **73**, 26–33
Vigdergauz, Shmuel — Cross Relations Between the Planar Elastic Moduli of Perforated Structures. **73**, 163–166(TB)
Virgin, L. N. — (see Santillan, S. T.) **73**, 664–671
Viviani, Antonio — (see Kostarev, Konstantin) **73**, 66–71
von Bernstorff, B. S. — (see Emri, I.) **73**, 752–757
von Terzi, Dominic A. — (see Fasel, Hermann F.) **73**, 405–412
Vostrukhov, A. V. — (see Derendyaev, N. V.) **73**, 580–589
Vrech, S. M. — (see Etse, G.) **73**, 1026–1030

Waas, Anthony M. — (see Gustafson, Peter A.) **73**, 745–751
Walton, Jay R. — (see Oh, Eun-Suok) **73**, 792–798
Wang, B. L., and Mai, Y.-W. — Periodic Antiplane Cracks in Graded Coatings Under Static or Transient Loading. **73**, 134–142
Wang, Bao-Lin, and Mai, Yiu-Wing — Closed-Form Solution for an Antiplane Interface Crack between Two Dissimilar Magnetoelectroelastic Layers. **73**, 281–290
Wang, Bo — (see Huang, Gang) **73**, 737–744
Wang, Gang, Wen, Xisen, Wen, Jihong, and Liu, Yaozong — Quasi-One-Dimensional Periodic Structure with Locally Resonant Band Gap. **73**, 167–170(TB)
Wang, Min-Zhong, and Xu, Bai-Xiang — The Arithmetic Mean Theorem of Eshelby Tensor for Exterior Points Outside the Rotational Symmetrical Inclusion. **73**, 672–678
Wang, Mingji, Liechti, Kenneth M., Srinivasan, Vibha, White, John M., Rossky, Peter J., and Stone, Matthew T. — A Hybrid Continuum-Molecular Analysis of Interfacial Force Microscope Experiments on a Self-Assembled Monolayer. **73**, 769–777
Wang, Xiaohua, and Thangam, Siva — Development and Application of an Anisotropic Two-Equation Model for Flows With Swirl and Curvature. **73**, 397–404
Wang, Xu, and Sudak, L. J. — Interaction of a Screw Dislocation With an Arbitrary Shaped Elastic Inhomogeneity. **73**, 206–211
Wei, P. S., and Ho, C. Y. — Analytical Solution of a Creeping Flow Impinging on a Spherical Cap-Shaped Bubble on a Flat Solid Surface. **73**, 516–523
Weiss, M., Rolfe, B. F., Dingle, M., and Duncan, J. L. — Elastic Bending of Steel-Polymer-Steel (SPS) Laminates to a Constant Curvature. **73**, 574–579
Wen, Jihong — (see Wang, Gang) **73**, 167–170(TB)
Wen, X. — (see Ingham, D. B.) **73**, 34–40
Wen, Xisen — (see Wang, Gang) **73**, 167–170(TB)
Wesley, M. — (see Pogozelski, E.) **73**, 335–337(TB)
White, John M. — (see Wang, Mingji) **73**, 769–777
Wierzbicki, Tomasz — (see Mohr, Dirk) **73**, 633–641
Woodruff, Stephen L. — (see Yousuff Hussaini, M.) **73**, 441–448
Wyszogradzki, A. A. — (see Margolin, L. G.) **73**, 469–473

Xie, Mayue, and Levy, Alan J. — The Viscoelastic Fiber Composite with Nonlinear Interface. **73**, 268–280
Xie, Wei-Chau, and So, Ronald M. C. — Numerical Determination of Moment Lyapunov Exponents of Two-Dimensional Systems. **73**, 120–127
Xu, Bai-Xiang — (see Wang, Min-Zhong) **73**, 672–678
Xu, L. Roy — (see Li, Xian-Fang) **73**, 544–554

Yahiaoui, M. A. — (see Bahloul, A.) **73**, 26–33
Yan, Xiangqiao — An Effective Numerical Approach for Multiple Void-Crack Interaction. **73**, 525–535
_____ A Brief Evaluation of Approximation Methods for Microcrack Shielding Problems. **73**, 694–696(TB)
Yong Choi, Jeom — (see Nemat-Nasser, Sia) **73**, 825–833
Younis, Bassam A., and Berger, Stanley A. — On Predicting the Effects of Streamline Curvature on the Turbulent Prandtl Number. **73**, 391–396
_____ (see Buscaglia, Gustavo) **73**, 889(ED)
Yousuff Hussaini, M., Thangam, Siva, Woodruff, Stephen L., and Zhou, Ye — Development of a Continuous Model for Simulation of Turbulent Flows. **73**, 441–448
Yuen, Ka-Veng, Beck, James L., and Katafygiotis, Lambros S. — Unified Probabilistic Approach for Model Updating and Damage Detection. **73**, 555–564

Zamankhan, Piroz, and Bordbar, Mohammad Hadi — Complex Flow Dynamics in Dense Granular Flows—Part I: Experimentation. **73**, 648–657
Zanocco, P., Delmastro, D., and Giménez, M. — Numerical Aspects on the Prediction of Stability Boundaries of Two-Phase Natural Circulation Circuits, Considering Flashing Evaluation. **73**, 911–922
Zavattieri, Pablo D. — Modeling of Crack Propagation in Thin-Walled Structures Using a Cohesive Model for Shell Elements. **73**, 948–958
Zhang, Rongjing, Shilo, Doron, Ravichandran, Guruswami, and Bhattacharya, Kaushik — Mechanical Characterization of Released Thin Films by Contact Loading. **73**, 730–736
Zhong, X. Allan — Computational Fracture Mechanics Analysis of Truck Tire Durability. **73**, 799–806
Zhou, Ye — (see Yousuff Hussaini, M.) **73**, 441–448
_____ (see Clark, Timothy T.) **73**, 461–468
Zuev, Andrew — (see Kostarev, Konstantin) **73**, 66–71